This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

Claim 1 (Previously Presented): A telemedicine system comprising a patient-based

physiological data acquisition and transmittal device connectable via a wireless network to

transmit physiological data to a remote server, wherein the patient-based physiological data

acquisition and transmittal device comprises:

an electronic physiological data acquisition unit which, under the control of a patient,

measures a physiological parameter of the patient to acquire and output data representing the

parameter:

a secure data store:

a wireless transmitter which upon receiving the output data from the data acquisition unit

automatically transmits the output data via the wireless network to the remote server; and

a display for displaying to the patient the data and messages related to the patient's

condition,

wherein, if a connection to the wireless network is unavailable, the electronic

physiological data acquisition unit performs the measurement, acquisition and output of data, and

the patient-based physiological data acquisition and transmittal device stores the data in the

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secure data store and automatically transmits the stored data later when a connection to the

wireless network is available,

wherein the remote server comprises a data analyzer and an automatic message generator

to generate the messages,

wherein the data analyzer automatically performs trend analysis of the data with

reference to trends tuned to each patient's characteristics, and

wherein the automatic message generator provides automated responses to the patient-

based physiological data acquisition and transmittal device based on the patient's condition as

obtained from the data analyzer, the messages comprising questions to initiate interaction with

the patient and being changeable by automatic download controlled by the server in response to

changes in the patient's condition as measured by the electronic physiological data acquisition

unit.

Claim 2 (Previously Presented): A telemedicine system according to claim 1

wherein the wireless transmitter is adapted to receive automatically the output data from the

physiological data acquisition unit on data acquisition thereby, and thereupon automatically to

transmit the output data immediately in real time to the remote server if the connection to the

wireless network is available.

Claim 3 (Previously Presented): A telemedicine system according to claim 1

wherein the wireless transmitter is adapted to establish a connection to the wireless network

automatically when it is switched on and to maintain the connection while switched on.

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Claim 4 (Previously Presented): A telemedicine system according to claim 1

wherein the wireless network is a packet-switched network.

Claim 5 (Original): A telemedicine system according to claim 4 wherein the wireless

network is a public network.

Claim 6 (Previously Presented): A telemedicine system according to claim 5

wherein the wireless network is a General Packet Radio Service (GPRS) network.

Claim 7 (Previously Presented): A telemedicine system according to claim 1

wherein the wireless network is one of a 3G, a PDC-P and an EDGE network.

Claim 8 (Previously Presented): A telemedicine system according to claim 1

wherein the wireless transmitter is one of a cellular telephone and a PDA.

Claim 9 (Previously Presented): A telemedicine system according to claim 8

wherein a software application is provided on the one of a cellular telephone and a PDA to

interface with the physiological data acquisition unit and to control data transmission to the

remote server.

Claim 10 (Previously Presented): A telemedicine system according to claim 1

wherein the patient-based data acquisition and transmittal device is adapted to check the acquired

data for compliance with preset conditions.

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Claim 11 (Original): A telemedicine system according to claim 10 wherein the preset

conditions relate to the quality or completeness of the data or the condition of the patient.

Claims 12 and 13 (Canceled).

Claim 14 (Previously Presented): A telemedicine system according to claim 1

wherein the remote server processes the data to check the condition of the patient and responds

with said messages related to the patient's condition via the wireless network.

Claim 15 (Previously Presented): A telemedicine system according to claim 1

wherein the remote server formats the data for delivery and display to a clinician.

Claim 16 (Canceled).

Claim 17 (Currently Amended): A telemedicine system according to claim 1 [[16]]

wherein the data analyser comprises a Kalman smoother for smoothing the data.

Claim 18 (Previously Presented): A telemedicine system according to claim 1

wherein the physiological data acquisition unit is one of: an electronic flow meter for recording

Peak Expiratory Flowrate, an electronic blood glucose meter, a blood pressure monitor, and a

heart rate monitor

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device

Claim 19 (Previously Presented): A telemedicine system according to claim 1 wherein the physiological data acquisition unit and wireless transmitter are integrated as a single

Claim 20 (Previously Presented): A telemedicine system according to claim 1 wherein the data sent from the wireless transmitter is time stamped with reference to a secure clock

Claim 21 (Original): A telemedicine system according to claim 20 wherein the secure clock is provided in the patient-based physiological data acquisition and transmittal device.

Claim 22 (Canceled).

Claim 23 (Previously Presented): A telemedicine system according to claim 1 wherein the data sent from the wireless transmitter is digitally signed.

Claim 24 (Previously Presented): A telemedicine system according to claim 1 wherein the data sent from the wireless transmitter comprises the location of the wireless transmitter

Claim 25 (Previously Presented): A telemedicine system according to claim 24 wherein information is sent from the server to the patient-based physiological data acquisition

and transmittal device for display thereon and is adapted depending on the location of the

wireless transmitter.

Claim 26 (Canceled).

Claim 27 (Previously Presented): A telemedicine system according to claim 1

wherein further information is sent from the server to the patient-based physiological data

acquisition and transmittal device, and wherein in dependence upon the physiological parameter

measurement and transmission to the server the further information comprises a prescription for

medication

Claims 28-35 (Canceled).

Claim 36 (Previously Presented): A telemedicine method comprising:

measuring, under patient control, a physiological parameter of a patient using a patient-

based device to acquire and output data representing the parameter,

automatically wirelessly transmitting the output data via a wireless network to a remote

server and, if a connection to the wireless network is not available, storing the data in a secure

data store and transmitting the stored data later when a connection to the wireless network is

available:

receiving from the remote server automated messages related to the patient's condition

obtained by an automatic, patient-tuned analysis of the data with reference to known trends for

the patient, the messages comprising questions to initiate interaction with the patient and which

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condition:

change automatically under server control in response to measured changes in the patient's

displaying, via a display of the patient-based device, the received messages.

Claim 37 (Previously Presented): A patient-based physiological data acquisition and transmittal device connectable via a wireless network to transmit physiological data to a remote server, the patient-based data acquisition and transmittal device comprising:

an electronic physiological data acquisition unit which, under control of a patient, measures a physiological parameter of a patient to acquire and output data representing the parameter;

communication circuitry which, upon receiving the output data from the data acquisition unit, automatically transmits the output data via the wireless network to the remote server and which receives from the remote server automated messages related to the patient's condition obtained by an automatic, patient-tuned analysis of the output data with reference to known trends for the patient, the messages comprising questions to initiate interaction with the patient and which change automatically under server control in response to measured changes in the patient's condition;

a secure data store; and

a display for displaying to the patient the data and the messages related to the patient's condition,

wherein, if a connection to the wireless network is unavailable, the electronic physiological data acquisition unit performs the measurement, acquisition and output of data, and the patient-based physiological data acquisition and transmittal device stores the data in the

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secure data store and automatically transmits the stored data later when a connection to the wireless network is available.